COLOR TELEVISION

Xentia 40 LXW 102-8625 REF

ENGLISH

CONTENTS

- Quick and Easy Installation
- Versatility and Expandability
- That doesn't make you feel fatigue on your Eyes.
- Flat-Panel Digital Display easy on the Eyes.

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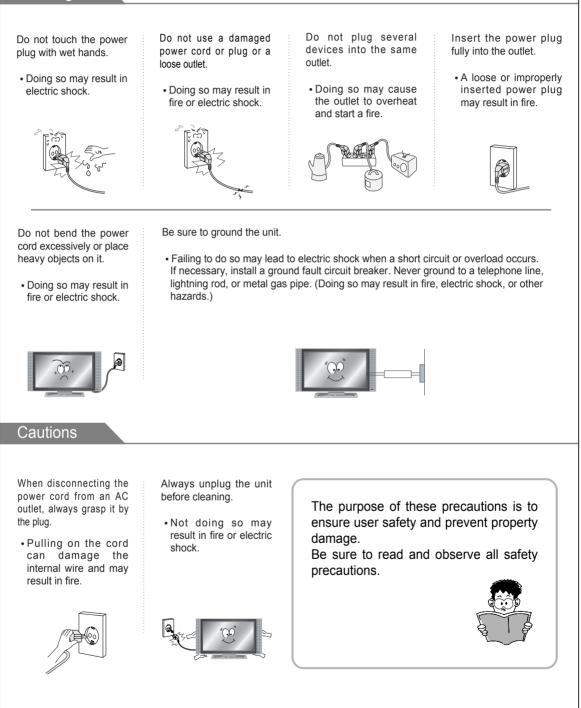
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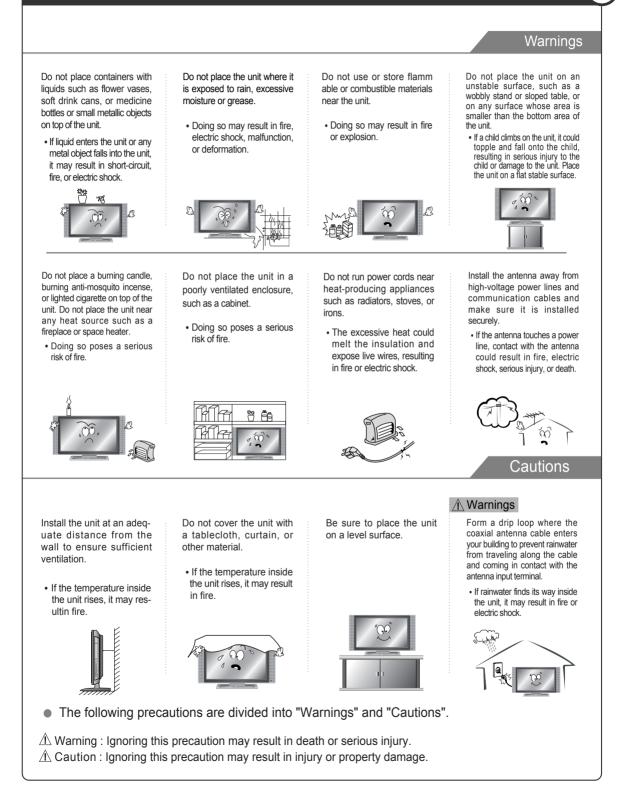
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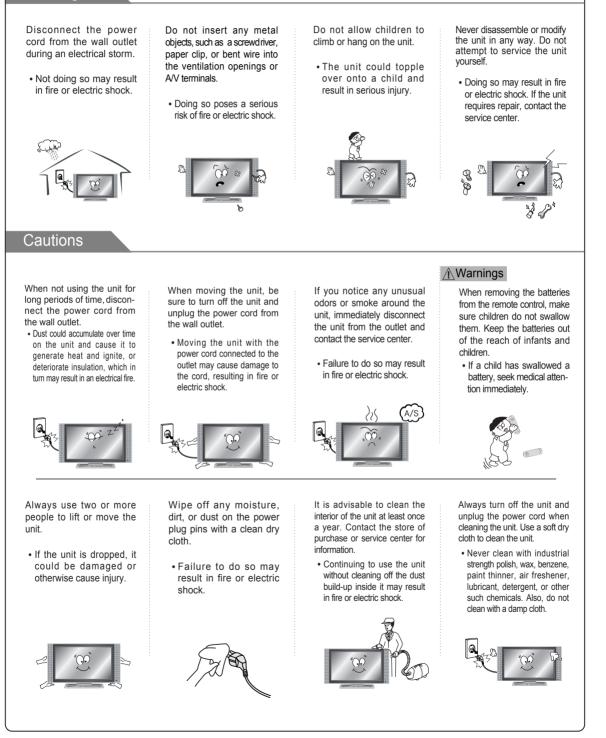
Safety Precautions

Installation



Use and Maintenance

Warnings



Important Safety Instructions

Important safeguards for you and your new product

Always be careful when using your LCD TV. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use the attachments/accessories specified by the manufacturer.
- 12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus

Safety Precautions

Important Safety Instructions



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION : TO REDUCE THE RISK OF ELE-CTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product. This symbol alerts you that important literature concerning operation and maintenance has been included with this product.



WARNING

TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Caution :

- These servicing instructions are for use by qualified service personnel only.

To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

What is LCD TV?

What is LCD TV?

LCD (Liquid Crystal Display) is a next generation flat-panel display module. Liquid crystal material is contained between sheets of glass and electricity causes the liquid crystal material to reflect or block the light emitted from a light source inside the display chassis.

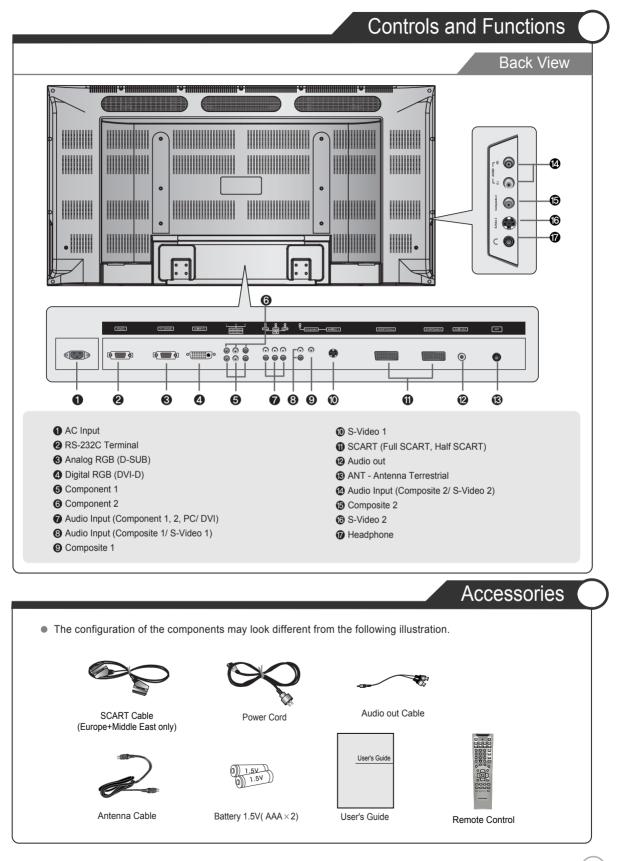
By incorporating this LCD display module, LCD TVs enable you to enjoy outstanding picture quality without the worries of space limitation and harmful radiation you may have experienced with conventional CRT TVs.

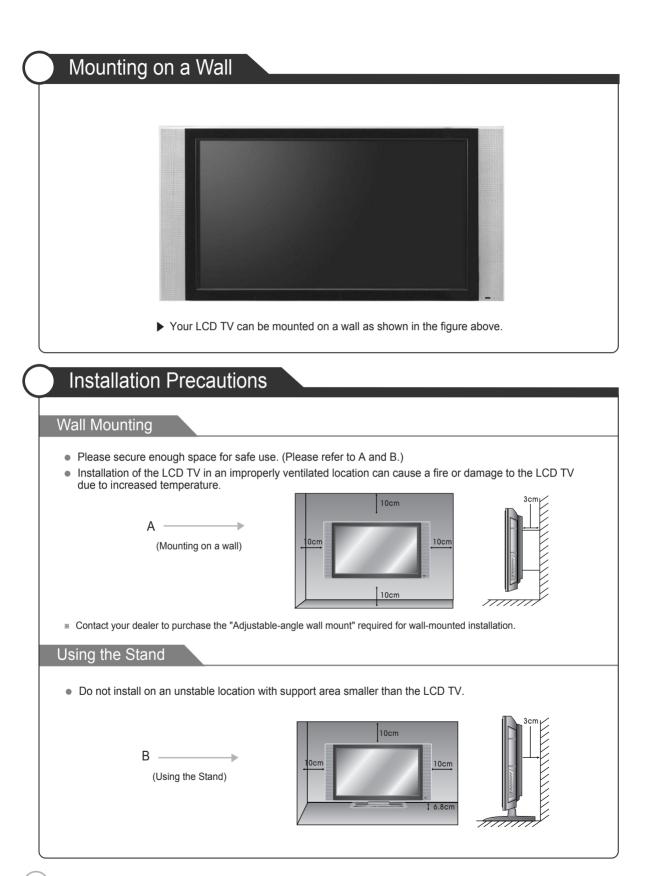


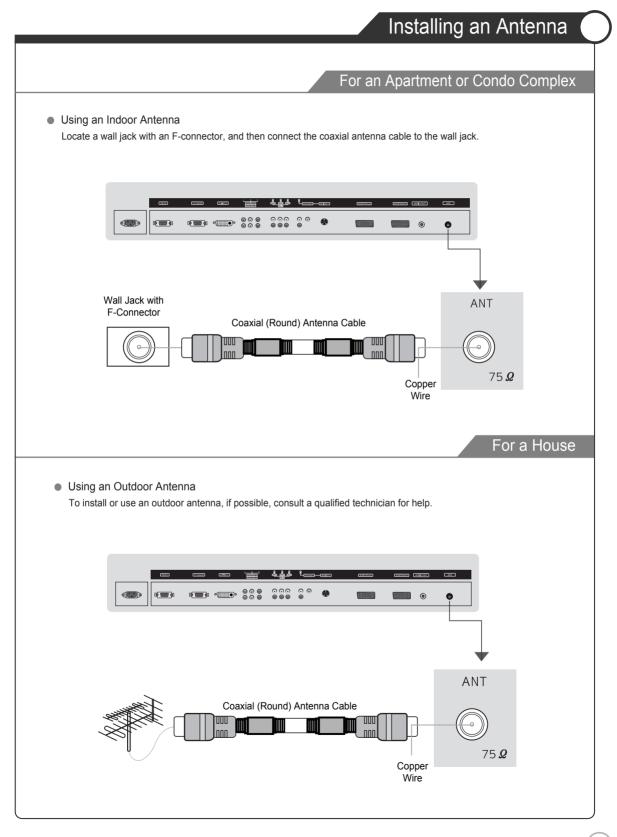
Features

- Picture-in-Picture : Enables you to simultaneously display two different image sources.
- PC Compatible Monitor : Enables you to connect PC (D-Sub) input for displaying high-resolution SXGA (1280x1024, 60Hz) PC images.
- HDTV-Ready Display : Enables you to view high-definition digital pictures using a DVD player or HDTV set-top receiver.
- Various Picture/Sound Controls : Enables you to set the picture and sound settings for a number of different types of programs and viewing and listening conditions.
- Auto Power On/Off Timer : Enables you to set the TV to automatically turn ON or OFF at a preset time.
- ATM : Enables you to set the TV to search for all available standard broadcast and cable TV channels and store them automatically.





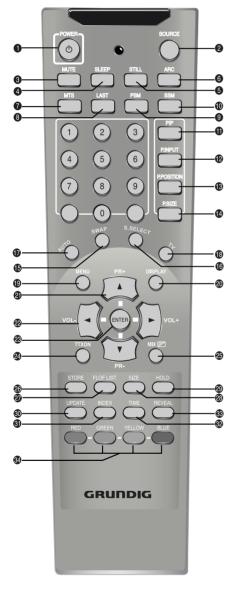




Remote Controller

• Functions of remote control buttons

The remote control is using Infra-Red (IR). Point it towards the front of the LCD TV. The remote control may not work correctly if it is operated out of range or out of angle.



 POWER : TURNS THE TV ON AND OFF(page.24) SOURCE : USE TO SELECT AN INPUT SOURCE (page.26) MUTE : PRESS TO TEMPORARILY CUT OFF THE SOUND (page.25) SLEEP : PRESS TO SELECT A TIME FOR THE TV TO TURN OFF AUTOMATICALLY (page.44) STILL : PRESS TO STOP THE ACTION DURING A PARTICULAR SCENE (page.38) ARC (Aspect Ratio Control) : PRESS TO CHANGE THE SCREEN SIZE (page.34) MTS (Multi-Television Sound) : PRESS TO SELECT MONO OR STEREO MODE (page.41) LAST : TUNES TO THE PREVIOUS PROGRAM (page.25) PSM : PICTURE STATUS MEMORY KEY (page.39) (CUSTOM, DYNAMIC, STANDARD, MOVIE, MILD) SSM : SOUND STATUS MEMORY KEY (page.30) (CUSTOM, STANDARD, MUSIC, MOVIE, SPEECH)
PIP CONTROL KEY (page 39, 40)
11. PIP : PIP ON/OFF 12. P.INPUT : PIP INPUT SELECT KEY 13. P.POSITION : PIP POSITION CONTROL KEY 14. P.SIZE : PIP AND PBP MODE CHANGE 15. SWAP : PIP SOURCE SWAP 16. S.SELECT : SOUND SWAP KEY
 17. AUTO (AUTO IN PROGRESS) : PRESS TO CONTROL THE MONITOR SCREEN AUTOMATICALLY 18. TV : TV INPUT SOURCE SELECT KEY 19. MENU : DISPLAYS THE MAIN ON-SCREEN MENU 20. DISPLAY : PRESS TO DISPLAY THE CURRENT PROGRAM AND AUDIO/ VIDEO SETTINGS (page.25) 21. ▲, ▼ (PR+, PR-) : PROGRAM, MENU CONTROL OR PAGE UP AND DOWN KEY, STAND BY ON 22. ◀, ► (VOL-, VOL+) : PRESS TO INCREASE OR DECREASE THE VOLUME OR MENU CONTROL KEY 23. ENTER : SAVE THE VALUE
TELETEXT CONTROL KEY (page 45)
 24. TTXON : TEXT ON KEY 25. MIX : MIX WITH TV SCREEN 26. STORE : STORE THE USER DEFINED FAVORITE PAGE 27. FLOF LIST : EXCHANGE FLOF/LIST MODE 28. SIZE : TELE TEXT SCREEN SIZE KEY 29. HOLD : HOLD FUNCTION DURING TELETEXT DISPLAY 30. UPDATE : DISPLAY CANCEL OR TEXT UPDATE KEY 21. INDEX : TEXT INDEX VEY

- 31. INDEX : TEXT INDEX KEY
- 32. TIME: TIME DISPLAY
- 33. REVEAL : SELECT HIDDEN CONTENT DURING TELETEXT DISPLAY
- 34. RED, GREEN, YELLOW, BLUE : DIRECT ACCESS TELETEXT

LINKED PAGE KEY



Avoiding Remote Control Problems

- 1. Check the polarity (+,-) of the batteries in the remote controller.
- 2. Check that the batteries have power.
- 3. Check that the LCD TV is powered and that it is properly plugged in.
- 4. Check if any three-wavelength lamp, special fluorescent or neon sign is turned on near the LCD TV.

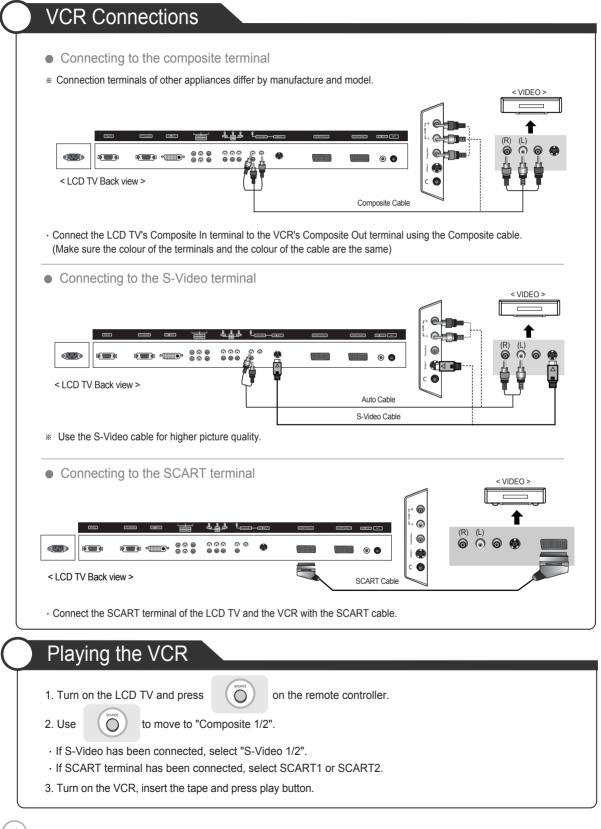
Instering Batteries in the Remote Controller

- 1. Open the cover out completely.
- 2. Insert the two supplied batteries (AAA, 1.5V). Ensure that the polarities (+ and -) of the batteries are aligned correctly.
- 3. Replay the cover.

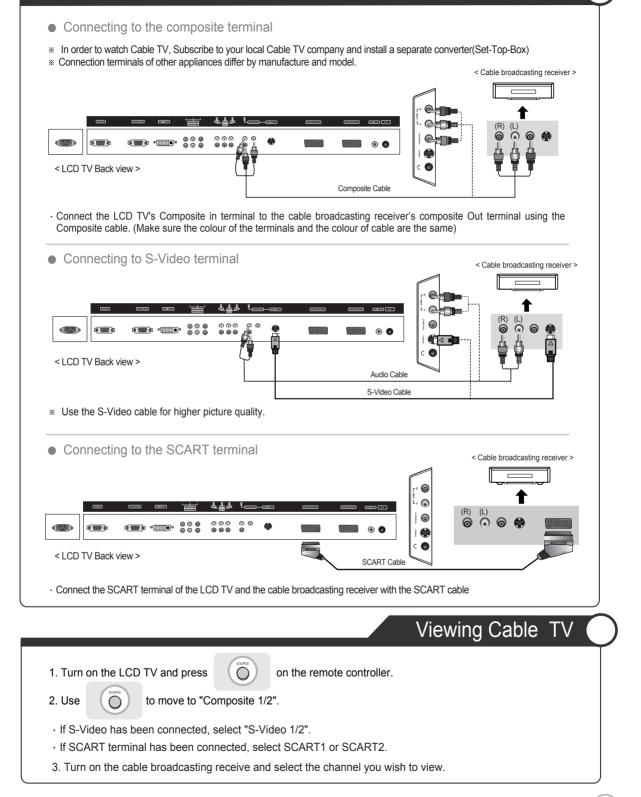
⚠ CAUTION : Risk of explosion if battery is replaced by an incorrect type.
Dispose of used batteries according to the national code (Recycling program).

How to use remote controller

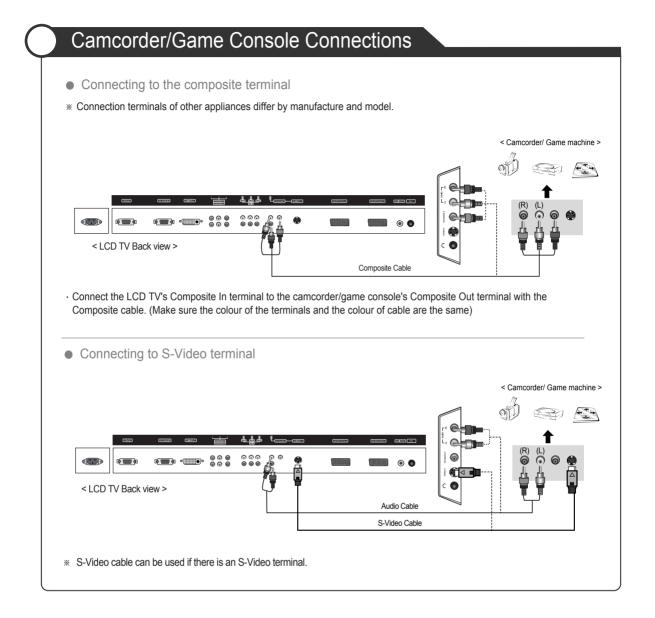
- The remote control should be operated within 23feet(7m) and 30° to the left and the right of the IR receiver on the front of the LCD TV.
- · Used batteries should be disposed properly.



Cable TV Connections







Using Camcorder/Game Console

1. Turn on the LCD TV and press

2. Use

ess (O)

to move to "Composite 1/2".

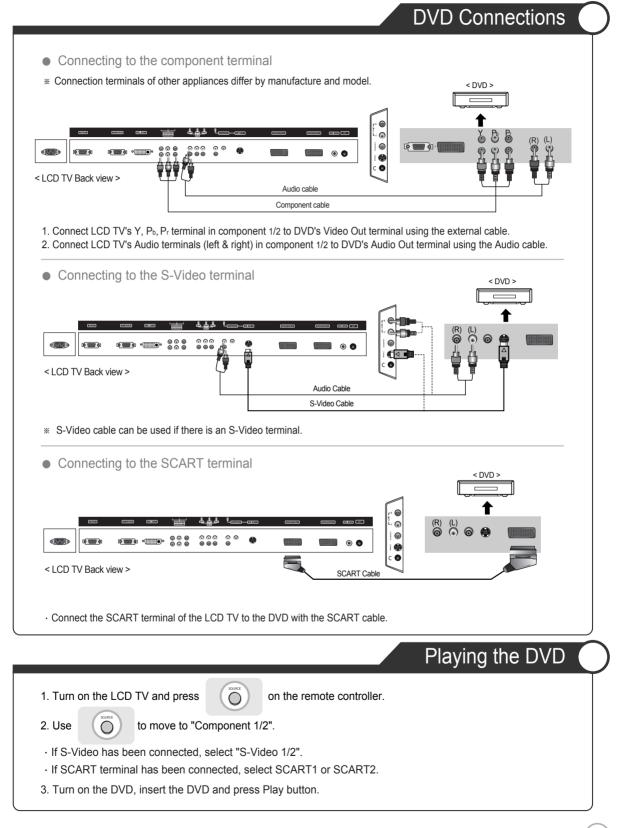
on the remote controller.

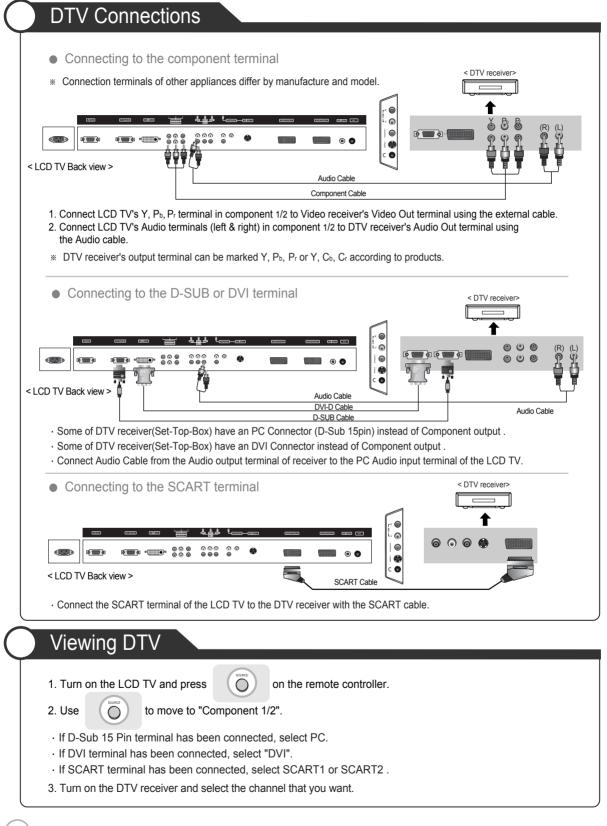
If S-Video has been connected, select "S-Video 1/2".

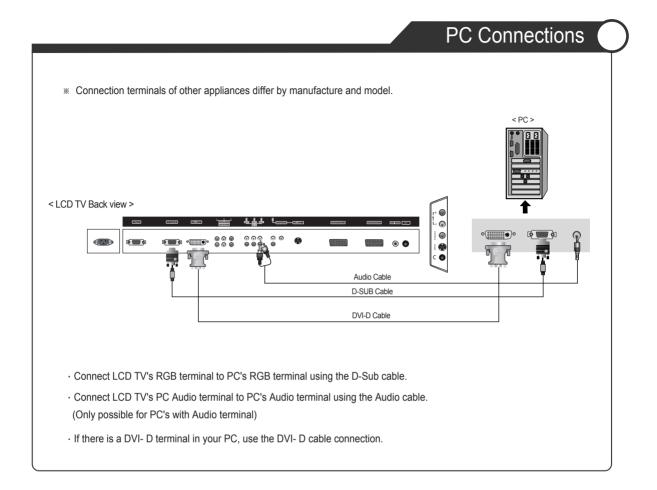
3. Turn on the Camcorder or video game and Set to Video mode.

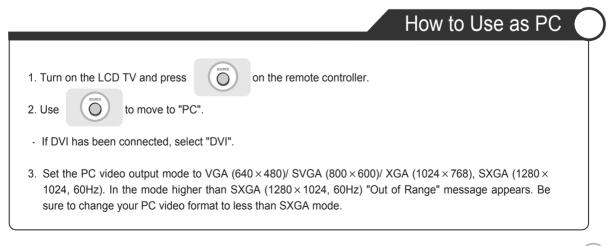
(Please refer to the User's manual of Camcorder/ Video game for more information)

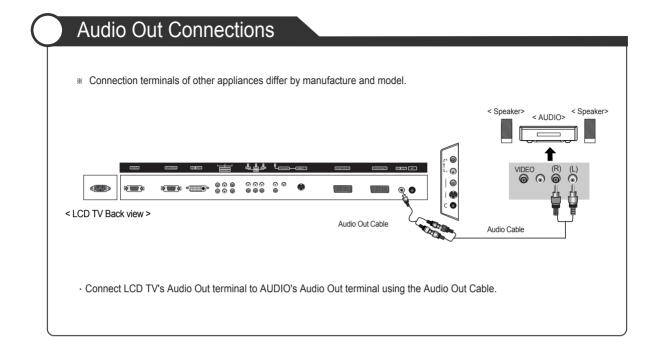
4. Insert tape into Camcorder and press play button or insert disc into the Video game console.

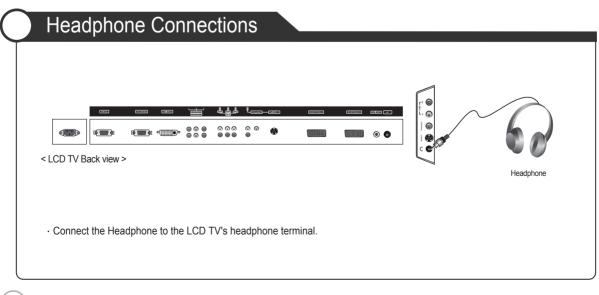




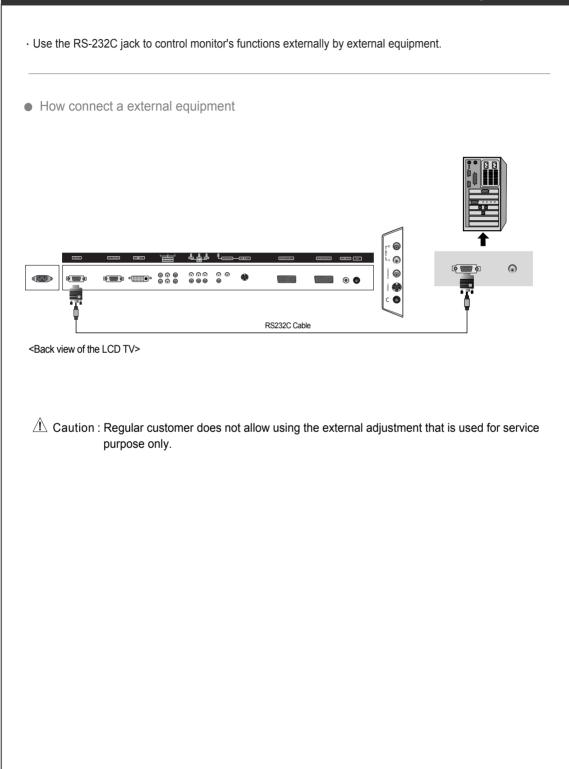








External Adjustment



Powering the LCD TV

- Power on/ off
 - To turn the LCD TV on : Press the "Main Power" button of LCD TV and then press the "Standby" button. · To turn the LCD TV off :
 - Press "Standby" button on the LCD TV and then press the "Main Power" button. Turning the main power switch off will save energy. It is the same as unplugging the power cord. If ON Time setting is set, the main power should be ON.
 - To turn on/off by remote controller : Press the Power button of remote controller (If the LCD TV is not turned on, check that the "Main Power" button on the LCD TV main body is turned on. The main power indicator will light up red if turned on).
- A CAUTION After turning off the main Power, please wait at least more than 3 seconds to turn the main power back on.

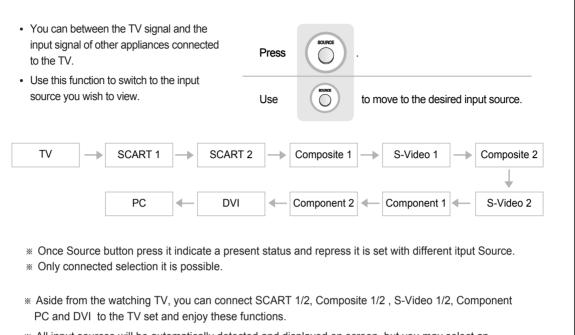
Initial Settings

- · When the brand new television set it turned on for the first time, following settings can be set using the plug and play function of the TV.
- · Press the "Main power" button of LCD TV and then press the "Stand by" button. You will see the country mode selection menu.

 Using t 	the menu		
Press	MENU		
Use		to move to Setup	
Press	ENTER	to select.	Setup Reset Plug & Play Language English
Press		to move to "Plug & Play".	Blue Screen Off
Press		to select.	Previous Menu
Use		to move to the desired "country".	Country Australia Belgium Crentia Dennak
Press		to select.Automatically "ATM" beginning.After "ATM" ends, select the desired Language.Select other of none expressed country.	Finand Finand France
Use		to move to the desired "Language".	Language Erplich German French Dutch
Press		to select.	Contention Separation Rely Contention Exit(Menu)
Press	MENU	to go back to the previous menu.	

		Watching T
Channel Sel	ection	
(TA)	increases the channel.	
	decreases the channel.	
 To go back t 	o the previous channel	
Press	to go back to the channel previously viewed.	
Volume Con	trol	
J-)vol-	increases the volume.	
	decreases the volume.	20
• To turn off of	nly sound	
	nly sound	e or a bell rings.
		e or a bell rings.
Use the mute fur Press	nction to turn off the LCD TV sound for a while, when a phon	e or a bell rings.
Use the mute fun Press INFO - To ch	nction to turn off the LCD TV sound for a while, when a phon button again to hear the sound again.	Information Abc Screen Mode Custom
Use the mute fun Press INFO - To ch Press	nction to turn off the LCD TV sound for a while, when a phone button again to hear the sound again.	Information

Selecting TV/External Input



* All input sources will be automatically detected and displayed on screen, but you may select an activated source when the input cable is connected only.

Using	the Me	enu	
Press	MENU	• The menu screen will appear.	
Use	¢	to move the cursor to the desired function.	MAIN MENU Picture CH Fight Sound Seetup Time
Press	ENTER	to select.	Picture Screen Mode Custom Adjust Size Auto Vide
Press	MENU	to go back to the previous menu.	Previous Menu

			To Set Location
Press			
Use		to move to Сн	
Press	UNDER UNDER	to select.	MAIN MENU Picture GII Sound Sound Setup Trime
Press	PR-	to move to "Country".	Trme
Use	Ð	to select the desired country.	Channel Country Australia Artim Manau Store /addiffanse Domomo Sot
Press	MENU	to go back to the previous menu.	Program Sot Program Name Fine Tune Fine Tune Previous Menu
I/PAL : B.G/PA B/PAL D/PAL B.H/PA	L : Germany : Australia, N : China, No L : Belgium	lom, Hongkong , Netherland, Switzerland, Italy, Austria, Yugoslavia ew Zealand, Singapore, Norway, India, Thailand, Ir	
D.K/SE	AM : France CAM : Russ AM : Egypt,	a, Poland, Czechoslovakia, Hungary Iran, Iraq	

\bigcirc	Settir	ng Cha	nnels	
	Use the	e Auto Searc	h function to preset all channels that are being broadcast	
	Press	MENU		
	Use		to move to CH.	
	Press	ENTER	to select.	
	Press	(T) m	to move to "ATM".	
	Press	ENTER	to select.	
	Use		to move to "Start".	
	Press	ENTER	to select. Press "Start" to start the automatic channel search/set function. All broadcasting channels will be set.	
	Press	MENU	to go back to the previous menu.	
	• ATM : /	Auto tuning	management.	
$\overline{\bigcirc}$	To se	et or er	ase a channel	
$\mathbf{\mathbf{u}}$				
	Press	MENU		
	Use		to move to CH.	
	Press	ENTER	to select.	
	Press		to move to "Add/ Erase".	
	Press	ENTER	to select.	
	Use	-32-	to move to "Add" or "Erase". Add/Erase Prog. No. : 3	
	Press	ENTER	to select. Add/Erase : Not in Mermory	
	Press	MENU	to go back to the previous menu.	
U				J

Press	MENU				
Use		to move to Picture	Custom	→ [Dynamic
	Ŷ		1	Γ	
Press		to select.			Standard
11000			Mild	— [Movie
Draga	Ŷ	to mayo to "Coroon Mode"			WOVIC
Press		to move to "Screen Mode".	· Custom : Select to set to	user's n	references
Use	(D	select between Custom/ Dynamic/ Standard/ Move/ Mild.	• Dynamic : Select when brightly lit en • Standard : It is the best • Movie : Select when wa • Mild : Select when usin	using the vironme screen atching a	ne LCD TV in a ent. setting. a movie.
Press	MENU	to go back to the previous menu.	environment.	g the Le	
Press	MENU				
Use		to move to Picture.		Picture	
Press	ENTER	to select.		Screen Mod Custom Adj Size Digital N/R	
Press		to move to "Custom Adjust".		Panel Safet	Previous Menu
Press	ENTER	to select.			
Use		to move to the desired category.		Picture Brightness Contrast	50
Use		to adjust the setting.		Colour	
Use		select between Brightness/ Contrast/ Colour/ Sharpness		101	Previous Menu
Press	MENU	to go back to the previous menu.			
				>(Custom Mode

Changing Picture Settings

- · Brightness : It adjusts the brightness of the image.
- \cdot Contrast : It adjusts the contrast of image.
- Tint : It adjust the natural tint of the image.
- \cdot Colour : It adjusts the intensity of the colour.
- · Sharpness : It adjusts the clarity of the image.

Changing	Sound	Settings
----------	-------	----------

Press	MENU		Sound
Use		to move to Sound.	SUIII0 Volume Cutom Adjust Auto Volume Level MITS Sound Output Etalance
Press	ENTER	to select.	Previous Meru
Press	() m	to move to "Custom Adjust".	Equalizer
Press	ENTER	to select.	10 KHz 3 KHz 1 KHz 300 Hz 100 Hz
Use		select between Custom, Standard, Music, Movie, Speech.	
Press	MENU	to go back to the previous menu.	
	Custom	→ Standard → Music → Movie	Speech
	Ĺ		

>Sound

· Volume : It adjusts the sound volume.

- \cdot Balance : It adjusts the volume of speakers on the left and the right.
- · Equalizer : It adjusts the volume by frequency bands and the user can select the desired sound quality.

			Cu	stom Sound Adjı	ustment
Droop	MENU				
Press				Sound Volume Custom Adjust Auto Volume Level	
Use		to move to Sound		MTS Sound Output Balance	Stereo Internal
Press	ENTER	to select.		Equalizer	Previous Menu
Press		to move to "Custom A	Adjust".		
Press	ENTER	to select.		10 Kitez 3 Kitez	1 KHz 300 Hz 100 Hz
Use		to move to the desired	d category.	Equalizer	Custom ·
Use		to adjust the setting.			1 KHz 300 Hz 100 Hz
Press	MENU	to go back to the prev	rious menu.		Previous Menu
				Sound	Output
Press	MENU			Sound	
Use		to move to Sound		Volume Custom Adjust Auto Volume Level MTS Sound Output Batence	Cn Stereo Internal
Press	ENTER	to select.			Previous Menu
Press	\$ \$ \$	to move to "Sound O	utput".		
Use		to select the "External" or "Internal".			
Press	MENU	to go back to the prev	vious menu.		
		Built-in Speaker	External Speaker	Note	
Ext	ernal	Built-in Speaker X	External Speaker O	Note 500mVrms	

Selecting the Menu Language

• Menu screen can be viewed in the language preferred by the user.

Use Image: Constraint of Sector in Move to Sector in Move to Sector in Move to "Language". Press Image: Constraint of Sector in Move to "Language". Use Image: Constraint of Sector in Move to in Sector in Move to in Sector in Move to in Move	Press	MENU	
Press Ito select. Image: Select rest of the sel	Use		Setup
Press Image: The second se	Press	ENTER	Plug & Play
	Press	\frown	to move to "Language".
	Use		to select the desired language.
	Press	MENU	to go back to the previous menu.

		Setting Blue Background
applianc		set to display blue screen when no TV signal or signal from other connected received. If there is an incoming signal, the blue screen will be replaced by the n.
Press	MENU	
Use		to move to Setup
Press	Chy Chy Chy	to select.
Press		to move to "Blue Screen".
Use		to select the "On" or "Off".
Press	MENU	to go back to the previous menu.

Setting Digital Noise Reduction

• Us	Use when screen is noise or lines appear.					
P	Press	MENU				
L	Jse		to move to Picture			
P	Press		to select.			
P	Press		to move to "Digital N/R".	Ŧs		
L	Jse		to select the "On" or "Off".			
P	Press	MENU	to go back to the previous menu.			

Application

Changing Screen Size	
Press .	
Auto wide \rightarrow wide \rightarrow Panorama \rightarrow Zoom1 \rightarrow Zoom2 \rightarrow 4:3 (normal) \rightarrow 14:9	
 In PC input mode, you can only select either the wide or the normal (4 : 3) mode. In Component 1/2 input mode, you can't Select Auto Wide. In Component 1/2 input mode (1080i), you can't Select Zoom2. 	
Auto wide wide Panorama	
\uparrow \downarrow	

>Screen Size

- \cdot Auto wide It automatically displays for the screen format of input signal.
- wide It makes 16 : 9 format for input signal.
- \cdot Panorama It makes 4 : 3 format fit into 16 : 9 format with minimal loss in content.
- \cdot Zoom 1 It enlarges the natural screen factor by approx. 5 %
- \cdot Zoom 2 It enlarges the natural screen factor by approx. 10 %
- \cdot 4 : 3 It is the standard format of broadcasting.
- 14 : 9 It makes 14 : 9 format for input signal.

Application

		Changing the Screen Size f	for WSS Signal Input
When V	VSS signal is	incoming from a connected external appliance, screen s	ize can be changed to panorama or 4 : 3.
Press	MENU		
Use		to move to Setup.	Setup Reset
Press	ENTER	to select.	Plug & Play Language English Blue Screen Off WSS Penorama
Press	€ ⁶ / ₂	to move to "WSS ".	Previous Menu
Use	-35-	to select the Panorama or 4 : 3.	
Press		to go back to the previous menu.	
• WSS :	Wide Scree	n Size.	
			Manual Store
Colour	system and s	ound system can be setup for each channel.	
Colour			
Press	MENU	·	
Use		to move to CH.	Channel Country Country Australia
Press	ENTER	to select.	A Tail Manual Store AddErate Program Sort Program Name
Press			Fine Tune
Pless	PL PL	to move to "Manual Store".	Fine Tune Previous Menu
Press		to move to "Manual Store". to select.	Manual Store Program No. Colour System SECAM
			Manual Store Roop an No. Colour System Sound System Channel Channel Free Search Abc MHz Store OK
Press	(ENTER)	to select.	Manual Store Program No. 3 Color System SECAM Sound System L Channel C Abc Freq. Sarch Miz
Press		to select. to move to the desired category.	Manual Store Pogram No. Colour System Channel Channel Free Search Store Colour System Channel Channel Colour System Channel Colour System Channel Colour System Channel Colour System Channel Colour System Channel Colour System Channel Colour System Colour System Colou

Application

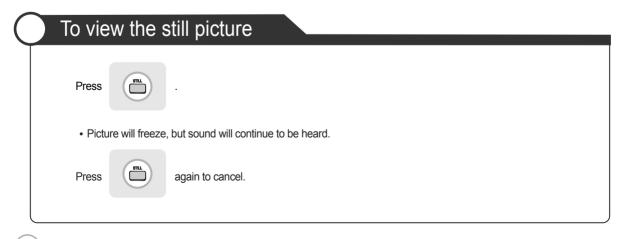
Sorting	Program
---------	---------

In this mode, you can arrange programs in numerical order.			
Press	MENU		
Use		to move to CH.	
Press		to select.	Channol Country Australia Manual Store Pogom Set
Press	€ v v v	to move to "Program Sort".	Program Name Pres Tane Previous Menu
Press	ENTER	to select.	
Use		to move to the desired Program Number.	Program Sort Prog.No. CH Program Name ♪
Press	ENTER	to move to the next category.	Previous Menu
Use		to move to the Preferred Program Number.	Program Set
Press	Contraction of the second seco	to sort.	Prog No. CH Program Name
Press	MENU	to go back to the previous menu.	

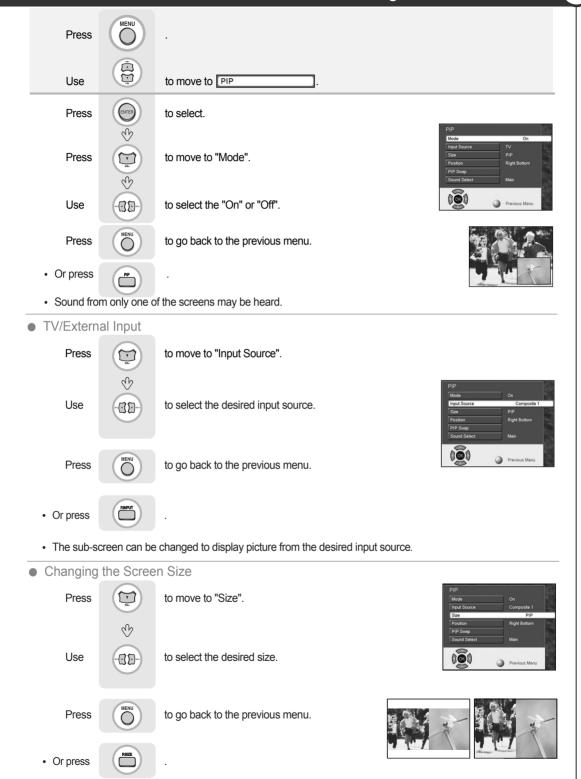
			Editing Program Name
 Favorite 	e programs c	an be stored to make it easier to find.	
Press	MENU		
Use	\$ (12) \$	to move to CH.	Channel Courty Australia
Press		to select.	Arta Manual Store Addriftense Program Son Englan Hana Ene Tune
Press	C Fr. C	to move to "Program Name".	Previous Menu
Press		to select.	
Use	CD	to move to the desired Program Number.	Program Name Prog. No. CH Program Name
Press	ENTER	to move to program name.	Exil/Menu)
Use		to register program name.	
Press	MENU	to go back to the previous menu.	

• Use screen fine-tune controls to adjust the screen when picture quality is unclear or lines appear.

Press	MENU	
Use		to move to CH Channel
Press	ENTER	to select. Australia Australia Australia Australia Australia Australia Australia Australia Australia Program Sort
Press		to move to "Fine Tune".
Press	ENTER	to select.
Use		to tune.
Press	MENU	to go back to the previous menu.
To retu	m to initial se	etting or Auto Setting, use to select "Reset" and press .



Viewing Picture in Picture





This feature maintains an equal Volume level ; even if you change channels.	T
Press O .	
Use to move to Sound .	
Press bring to select.	
Press to move to "Auto Volume Level".	
Use to select the "On" or "Off".	
Press to go back to the previous menu.	

			Stereo Settings
Press	MENU		
Use	\$ \$	to move to Sound.	Sound Volume Cutom Adjut
Press	(INTER)	to select.	Auto Volume Level On MTS Stereo Balance P
Press		to move to "MTS".	revolusivenu
Use		to select the desired category.	
Press	MENU	to go back to the previous menu.	
Or press		. (Multi Television Sound)	

Resetting LCD TV Settings

• It resets all of the parameters to the factory default.

Press	MENU	
Use		to move to Setup .
Press		to select.
Press		to move to "Reset".
Press	MENU	to select "OK".
The LCD	TV will turn o	off. The parameters will be set to factory default.
The LCD	TV will turn o	
The LCD	TV will turn o	
The LCD	TV will turn o	
The LCD	TV will turn o	
The LCD	TV will turn o	
The LCD	TV will turn o	
The LCD	TV will turn o	
The LCD	TV will turn o	
The LCD	TV will turn o	

			Setting Time
_			
Press	MENU		
Use	₹ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	to move to Time.	Time Clock Abc Abc On Timer Abc Abc Off Off Timer Abc Abc Off On Time Program Prog 0 On Time Volume 0
Press	ENTER	to select.	Timer Mode Once
Press	PR- PR-	to move to "Clock".	Time Glock Abb : Abb On Timer Abb : Abb Off Off Timer Abb : Abb Off On Time Hogum Prog 0 On Time Volume
Press	Vol	to move one step.	Timer Mode Once
Use		to adjust the desired hour.	Time Clock Abc Abc On Timer Abc Abc
Press	(D) var.	to move one step.	Off Timer Abb : Abb : Abb : Off Off Off Time Program Prog 0 Of Timer Volume 0 Timer Mode Once Previous Menu
Use		to adjust the desired minute.	
Press	MENU	to go back to the previous menu.	
You can	set your loca	time by adjusting the differences from GMT, according to your I	ocation.

Press	MENU) .		
		/		
Use		to move to	ime	Time Clock Abc : Abc : Abc
Press	ENTER	to select.		On Timer Fab: Fab: Fab: Off Timer Fab: Fab: Fab: On Time Program Prog On Time Volume 0
Press		to move to de	sired category.	Timer Mode Once
Press		to go back to	the previous menu.	
			Setting Time for Power On	Setting Time for Power Off
Setting	g Hour			
Use	-00-	to select,	On Timer : 10 : 00 Off	Off Timer : 22 : 00 Off
		to set		
Setting	g Minute			
Use	-32-	to select,	On Timer : 10 : 30 Off	Off Timer : 22 : 20 0ff
		to set		
Set/Ca	ancel			
Use	-35-	to select,	On Timer : [10] : [30] On	Off Timer : 22 : 20 On
		to select the "On" or "Off"		
Chanr	el Select			
Use		to set program	On Timer Program : Prog 7	
Volum	e Control			
Use	-32-	to set volume	On Timer Volume - 11	
 It sets t 	ne current		e automatic turn on/off can be set.	The time settings are retained onl o not turn the main power switch c

 Depending on the number of times the "Sleep" button is pressed, the TV will b turned off after 30, 60, 90, 120, 150 or 180 minutes.

Teletext

Basic Function

- TEXT On/Off
- 1. Press "ON" once , then displays the Teletext pages.
- 2. If you press "ON" once more, Text mode is off.

TOP TEXT

The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

- Group/Block/Page selection
- 1. With the blue button you can progress block to block.
- 2. Use the Yellow button to proceed to the next group with automatic overflow to the next block.
- 3. With the Green button you can proceed to the next existing page with automatic overflow to the next group.
- 4. The RED button permits to return to previous selection.

FLOF TEXT

The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

- Page selection
- 1. Press the Index button to select the index page.
- 2. You can select the pages, which are colour coded along the bottom line with the same coloured buttons.

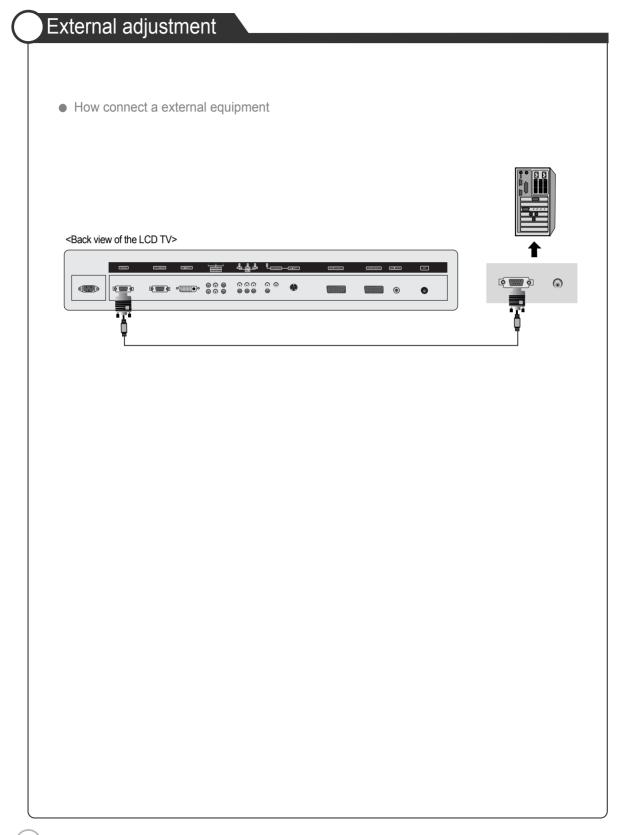
Special Teletext Function key

- MIX : In the mix mode display, the underlying video and the teletext page display are both simultaneously visible on the screen. This command turns the display to mix mode and is enabled only in the text mode.
- STORE : This command stores the user defined favorite pages. This command is enabled only if the list mode is active.
- LIST : This command toggles between list mode and current. Text mode(FLOF, TOP or normal)
- SIZE : Toggle the display page size between double-size top, double-size bottom and normal.
- HOLD : The update of the current display page is halted so that the content will not be changed.
- CANCEL : Press this button to view the updated teletext page or display cancel.
- INDEX : Return to the index page.
- TIME : When watching a TV program, press this button to display the time at the top right hand corner of the screen.

Press this button again to remove the display.

- REVEAL : Press this button to display the concealed information. Such as solutions of riddles or puzzles.
- RED, GREEN, YELLOW, BLUE-In the TOP/FLOF automatic navigation mode, these keys select and display the linked page.

External adjustment



External adjustment

Use Image: Constraint of the setup Press Image: Constraint of the setup Press Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup Image: Constraint of the setup	Press Image: Constraint of the previous menu. Use Image: Constraint of the previous menu. Press Image: Constraint of the previous menu. Press Image: Constraint of the previous menu.	Press Image: Constraint of the setup interview of the setup intervie				Set ID
Press Image: Second	Press Image: Setup interview Use Image: Setup interview Press Image: Setup interview Press Image: Setup interview Image: Setup interview Image: Setup interview Press Image: Setup interview Image: Setup interview Image: Setup interview Image: Setup	Press Image: Constraint of the setup interview of the setup intervie				
Press Image: Select. Image: Select. Image: Select.	Press Image: select. Image: select. Image: select.	Press Image: select. Image: select. Image: select.	Press	MENU		
Press Image: select. Press Image: select. Use Image: select. Press Image: select. Image: select. Image: select.	Press Image: Select. Image: Select. Image: Select. Press Image: Select. Image: Select. Use Image: Select. Image: Select. Press Image: Select. Image: Select. Image: Select. Image: Select. Press Image: Select. Image: Select. Image: Select. Image: Select. Image: Select. Press Image: Select. Image:	Press Image: Select. Image: Select. Image: Select. Press Image: Select. Image: Select. Use Image: Select. Image: Select. Image: Select. Press Image: Select. Image: Select. Image: Select. Press Image: Select. Image: Select. Image: Select. Image: Select. Image: Select. Image: Select. Image: Select. Press Image: Select. Image: Select. Image: Select. Image: Select. Image: Select. Image: Select. Image: Select. Image: Select. Image: Select. Image: Select. Press Image: Select.	Use	23 23	to move to Setup.	Reset
Press Ito move to "Set ID". Use Ito select the desired ID number. Press Setup to go back to the previous menu. Setup Setup Frage Ito go back to the previous menu. Setup	Press Image: Second	Press Image: The select the desired ID number. Press Image: The select the desired ID number. Press Image: The select the desired ID number. Image: The select the desired ID number. Image: The select the desired ID number. Image: The select the desired ID number. Image: The select the desired ID number. Image: The select the desired ID number. Image: The select the desired ID number. Image: The select the desired ID number. Image: The select the select the desired ID number. Image: The select the desired ID number. Image: The select the sel	Press	ENTER	to select.	Language English Blue Screen Off Set ID 0
Press O go back to the previous menu.	Press to go back to the previous menu.	Press to go back to the previous menu.	Press		to move to "Set ID".	Previous Menu
Press O go back to the previous menu.	Press to go back to the previous menu.	Press to go back to the previous menu.	Use	-35-	to select the desired ID number.	Setup
	The adjustment range of Set ID is 0~99.	The adjustment range of Set ID is 0~99.	Press	MENU	to go back to the previous menu.	Plug & Play Language English Blue Screen Off
he adjustment range of Set ID is 0 ~ 99.			Гhe adjı	ustment rang	e of Set ID is 0~99.	(O) Previous Menu

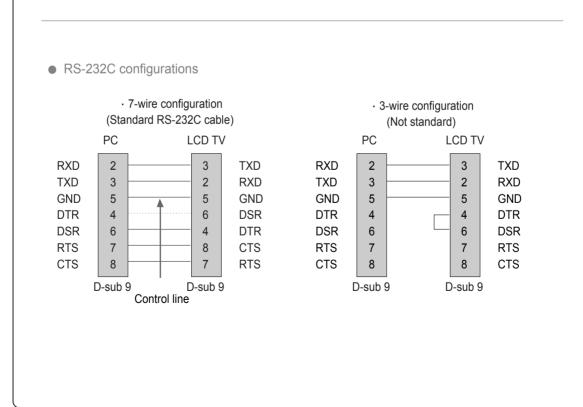
Special features

• Type of connector : D-Sub 9-pin male

No.	Pin name	O
1	No connection	6
2	RXD (Receive data)	
3	TXD (Transmit data)	
4	DTR (DTE side ready)	
5	GND	
6	DSR (Dce side ready)	Pin NO.4 and Pin
7	RTS (Ready to send)	NO.6 must be
8	CTS (Clear to send)	connected on
9	No Connection	monitor side

 \cdot Use a crossed (reverse) cable.

Wire the cable so that each pair of data lines cross between the two devices. These data line pairs are RXD (Receive to send) and TXD (Transmit data), DTR (DTE side ready) and DSR (DCE side ready), and RTS (Ready to send) and CTS (Clear to send).



COMMUICATION PARAMETERS

- BAUD RATE : 9600 bps
- Data Length : 8bits
- Parity : None
- Stop bit : 1bit
- * The Remote Control and LCD TV Key Control(Except Main Power) Don't Operate When Controlling LCD TV Set by PC.

Command List

Item	ASCII Code	Data(hex)
1. Power	р	00h~01h
2. Input Source	i	00h~07h
3. Aspect Ratio	r	00h~08h
4. Volume Mute	W	00h~01h
5. Volume Control	V	00h~64h
6. Screen Mode	S	00h~04h
7. Brightness	b	00h~64h
8. Contrast	k	00h~64h
9. Colour	С	00h~64h
10. Tint	t	00h~64h

Item	ASCII Code	Data(hex)
11. Sharpness	h	00h~64h
12. Information	f	00h~01h
13. Pip On	0	00h~01h
14. Pip Source	u	00h~07h
15. Pip Location	n	00h~03h
16. Pip Sound set	е	00h~01h
17. Pip Mode	d	00h~02h
18. Remote Control Or	n j	00h~01h
19. Abnormal State	q	00h~01h
20. Sound Mode	у	00h~04h

Tramsmission / Receiving Protocol List

* Transmission

{Command}{ }{SET ID}{ }{Data}{Cr}

- {Commad} To Control Code LCD TV
- { } "Space , ASCII Code = 0x20"
- {SET ID} You Can Adjust SET ID Setup Menu of LCD TV
- {Data} Data Command Transmit 'FF' data to data read mode {Cr} Carriage Return
- ASCII Code 0x0d

* Ok Acknowledge {SET ID}{:}{OK}{x}{Data}{x}

- The LCD TV set transmits ASCII based on this format When receiving normal data. At this time, If the data is data read mode, it indicates present status data if the data is data write mode, it returns the data of PC.
- * In case set ID is 0, Ack data doesn't feed back, and you can adjust all LCD TV set.

External adjustment

RS232C Communication Protocol

1. Power : p

- ▶ To Control Power On/Off of the LCD TV * Transmission {p}{ }{SET ID}{ }{Data}{Cr} Data 0 : Off Data 1 : On * Ack {SET ID}{:}{OK}{x}Data}{x} Data 0 : Off Data 1 : On Read Power On Source Status * Transmission {p}{ }{SET ID}{ }{FF}{Cr} * Ack {SET ID}{:}{OK}{x}Data}{x} Data 0 : Power Off Data 1 : Power On Data 2 : TV Data 3 : Scart 1 Data 4 : Scart 2 Data 5 : Composite 1 Data 6 : S-Video 1 Data 7 : Composite 2 Data 8 : S-Video 2 Data 9 : Component 1 Data 10 : Component 2 Data 11 : DVI Data 12 : PC * If Other Functions Transmit 0xFF data based on this format. Ack data feeds back present status about each function. 2. Input Source : i ▶ To Input Source Select * Transmission {i}{ }{SET ID}{ }{Data}{Cr} Data 0 : TV Data 1 : Scart 1 Data 2 : Scart 2 Data 3 : Composite 1 Data 4 : S-Video 1
- Data 5 : Composite 2 Data 6 : S-Video 2 Data 7 : Component 1 Data 8 : Component 2 Data 9 : DVI Data 10 : PC

* Ack {SET ID}{:}{OK}{x}{Data}{x} Data 0 : TV Data 1 : Scart 1 Data 2 : Scart 2 Data 3 : Composite 1 Data 4 : S-Video 1 Data 5 : Composite 2 Data 6 : S-Video 2 Data 7 : Component 1 Data 8 : Component 2 Data 9 : DVI Data 10 : PC

3. Aspect Ratio : r

► To adjust screen format * Transmission {r} {SET ID} {Data} Cr Data 0 : Auto wide Data 1 : Wide Data 2 : Panorama Data 3 : Zoom1 Data 4 : zoom2 Data 5 : 4:3 Data 6 : 14:9 Data 7 : 4:3(In PC Mode) Data 8 : Wide(In PC Mode)

Ack {SET ID}{:}{OK}{x}{Data}{x} Data 0 : Auto wide Data 1 : Wide Data 2 : Panorama Data 3 : Zoom1 Data 4 : zoom2 Data 5 : 4:3 Data 6 : 14:9 Data 7 : 4:3(In PC Mode) Data 8 : Wide(In PC Mode)

4. Volume Mute : w

► To Select volume mute on/off

* Transmission

{w}{ }{SET ID}{ }{Data}{Cr} Data 0 : On Data 1 : Off

* Ack

{SET ID}{:}{OK}{x}{Data}{x} Data 0 : On Data 1 : Off

5. Volume Control : v

- To adjust volume
- * Transmission {v}{ }{SET ID}{ }{Data}{Cr}
 - Data : Min : 00h~Max : 64h

* Ack

{SET ID}{:}{OK}{x}{Data}{x} Data : Min : 00h~Max : 64h

6. Screen Mode : s

- ► To Select Screen Mode
- * Transmission

{s}{ }{SET ID}{ }{Data}{Cr}

- Data 0 : Custom
- Data 1 : Dynamic (In PC Mode : High)
- Data 2 : Standard (In PC Mode : Middle)
- Data 3 : Movie (In PC Mode : Low) Data 4 : Mild

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

- Data 0 : Custom
- Data 1 : Dynamic
- Data 2 : Standard
- Data 3 : Movie
- Data 4 : Mild

7. Brightness : b

- To adjust Brightness
- * Transmission

{b}{ }{SET ID}{ }{Data}{Cr} Data : Min : 00h~Max : 64h

* Ack

{SET ID}{:}{OK}{x}Data}{x}

Data : Min : 00h~Max : 64h

🚦 8. Contrast : k

- ► To adjust Contrast
- * Transmission

{k}{ }{SET ID}{ }{Data}{Cr} Data : Min : 00h~Max : 64h

* Ack {SET ID}{:}{OK}{x}{Data}{x}

Data : Min : 00h~Max : 64h

9. Colour : c

{SET ID}{:}{OK}{x}{Data}{x} Data : Min : 00h~Max : 64h

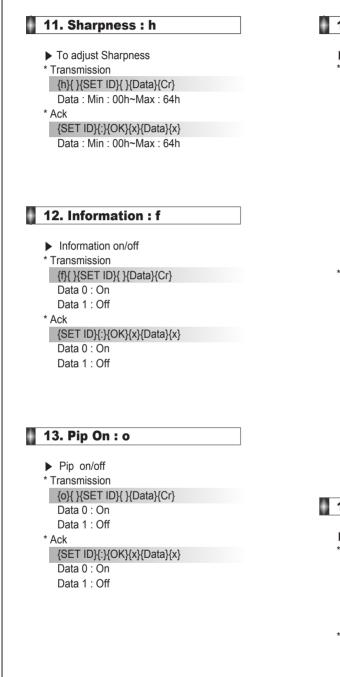
10. Tint : t

To adjust Tint (Not available in PC Mode)
 * Transmission
 {t} {SET ID} {Cr}

Data : Min : 00h~Max : 64h

* Ack

{SET ID}{:}{OK}{x}{Data}{x} Data : Min : 00h~Max : 64h



14. Pip Source : u

▶ To Select Pip Source * Transmission {u}{ }{SET ID}{ }{Data}{Cr} Data 0: TV Data 1 : Scart 1 Data 2 : Scart 2 Data 3 : Composite 1 Data 4 : S-Video 1 Data 5 : Composite 2 Data 6 : S-Video 2 Data 7 : Component 1 Data 8 : Component 2 Data 9 : DVI Data 10 : PC * Ack {SET ID}{:}{OK}{x}{Data}{x} Data 0 : TV Data 1 : Scart 1

- Data 1 : Scart 1 Data 2 : Scart 2 Data 3 : Composite 1 Data 4 : S-Video 1 Data 5 : Composite 2 Data 6 : S-Video 2 Data 7 : Component 1 Data 8 : Component 2
- Data 8 : Compor Data 9 : DVI
- Data 10 : PC

15. Pip Location : n

To Select Pip Position
 * Transmission
 {n}{ }SET ID}{ }Data{Cr}
 Data 0 : Right Bottom
 Data 1 : Right Top
 Data 2 : Left Top
 Data 3 : Left Bottom
 * Ack
 * SET ID}{:}{OK}{x}{Data}{x}
 Data 0 : Right Bottom
 Data 1 : Right Top
 Data 2 : Left Top
 Data 2 : Left Top
 Data 3 : Right Bottom
 Data 2 : Left Top
 Data 3 : Left Bottom

16. Pip Sound Set : e

- To Select Pip Sound
 * Transmission

 {e}{ }{SET ID}{ }{Data}Cr
 Data 0 : Main
 Data 1 : Sub
 * Ack
 {SET ID}{:}OK}x{Data}x
 - Data 0 : Main Data 1 : Sub

17. Pip Mode : d

- To Select Pip Mode
- * Transmission {d}{ }{SET ID}{ }{Data}{Cr} Data 0 : PIP Data 1 : PBP1 Data 2 : PBP2

* Ack

{SET ID}{:}{OK}{x}{Data}{x} Data 0 : PIP Data 1 : PBP1 Data 2 : PBP2

18. Remote Control On : j

- To Select Remote Control on/off
 * Transmission

 {jj} {SET ID} {Data}Cr
 Data 0 : Pc Control
 Data 1 : Remote Conroller On
 * Ack
 {SET ID}:{OK}x}Data{x}
 Data 0 : Pc Control
 - Data 1 : Remote Conroller On

19. Abnormal Status : q

- You Can Read LCD TV Status
- * Read Only Mode
- * Transmission
- {q}{ }{SET ID}{ }{FF}Cr} * Ack

 - {SET ID}{:}{OK}{x}{Data}{x} Data 0 : OK
 - Data 1 : Stanby
 - Data 2 : AC Downr
 - Data 2 . No Down

20. Sound Mode : y

- To Select Sound Mode
- * Transmission
 - {s}{ }{SET ID}{ }{Data}{Cr}
 - Data 0 : Custom
 - Data 1 : Standard
 - Data 2 : Music
 - Data 3 : Movie
 - Data 4 : Speech
- * Ack
 - {SET ID}{:}{OK}{x}{Data}{x}
 - Data 0 : Custom
 - Data 1 : Standard
 - Data 2 : Music
 - Data 3 : Movie
 - Data 4 : Speech

Trouble shooting

- In case a problem occurs with your LCD TV, please take the following steps first.
- If you still have the problem, turn the power off and contact your dealer or an authorized service center.
- Screen related Matters

Problem	Action
The screen does not appear.	Is the power plug pulled out? Insert the power plug. Turn the main power button on and press the power button of the remote controller.
The screen appears too slowly after the power is turned on.	This problem occurs for a brief time in the process of image elimination processing in order to hide temporary screen noise that occurs when the power is turned on. But if the screen does not come after 1 minute has passed, contact your dealer or an authorized service center.
Screen is too bright or too dark.	Perform brightness adjustment or Contrast adjustment. (Please refer to page 29)
Screen is too large or too small.	Adjust the screen size. (Please refer to page 34)
Stripes appear on the screen and it shakes.	Stop using wireless telephones, hair driers and electric drills.
Simultaneous Screen does not appear.	Check that LCD TV and external equipment are connected. Check the inputs of simultaneous screen by pressing sub-screen selection.
The screen does not move.	Press the STILL button. (Please refer to page 38) Check if the Pause button is pressed on external equipment.
Computer Input Screen is abnormal.	Perform manual fine adjustment (Please refer to page 21).
Automatic Turn On does not work.	Automatic Turn On function works only when turning the LCD TV off with the remote controller or Standby button.
The screen shows snow or black patt- erns and then reverts to a clear picture.	The problem only occurs with DVI input when an abnormal signal is issued during an authorization process for a High-bandwidth Digital Content Protection (HDCP) compatible device. While it may vary depending on the actual device, the screen reverts to normal within a short time (5-7 seconds).
The screen flickers in multi-screen mode (PIP/PBP).	The problem occurs when both main and sub screens are supplied wit interlaced signals. Whilst an internal de-interlacer should remove any trembling that occurs with interlaced signal input, either of the screens can still tremble when both screens are input with interlaced signals, because there is only one de-interlacer available.

Sound related Matters

Problem	Action
Screen appears, Voice is not heard	 Press the "Mute"button. (page 25) Increase the sound by pressing volume adjustment button. Check if voice terminal of external input is connected properly. Check if speaker cables are connected properly. If it is on PIP mode, convert audio of main screen and sub screen by pressing S.SELECT. Select and check the other input. If the sound still does not work and the other channels are the same after you have done as the above, contact your dealer or an authorized service center. Check if the headphone jack gets pluged in. Check if the speaker on/off selection at "On" in sound mode.
Lots of noise (static) occurs.	When connecting a Set-Top-Box, check that it is on stereo broadcasting. If it is, the TV program may not be available or the reception may be bad. Check the audio source with another player. If that source is good, contact your dealer or an Authorized service center.

Trouble shooting Tips

Others

Problem	Action			
Remote controller does not work.	 Check if main power is On. Check that the batteries of the remote controller were loaded properly. 			
	3. Check to see if any obstacle exists between the LCD TV and the remote controller and remove it, if any.			
	4. If the batteries have no power, replace them with two new batteries.			
	5.Please check out current mode of fnuction key.			
LCD TV makes strange noise.	It is the noise when the mechanism expands or contracts from to changes to the environment due to factors such as humidity, temperature, etc. It is not a failure.			
LCD TV indication lamp is On.	The red means the Stand-by power is ON. It will take a few seconds to turn off as the main power is off.			

• This LCD TV is for household use and registered as suitable on electromagnetic waves.

- Therefore, you can use it in every location as well as residential areas.
- For improvement of product's quality, program can be upgrade without costomer's agreemant.

Supported Display Modes

PC mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
	31.47	60
640×480	37.86	72
	37.50	75
720×400	31.47	70
	35.15	56
000.000	37.88	60
800×600	48.88	72
	46.88	75
	48.36	60
1024×768	56.48	70
	60.02	75
1280×1024	64.0	60

Considerations in Installation

• If any signal of unsupported resolution is input, the "Out of Range" message appears.

Supported Display Modes

• Component Mode [Y, C_b(P_b), C_r(P_r)]

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	
720×480	15.73	60.00	SDTV, DVD 480i
720×576	15.63	50.00	SDTV, DVD 576i
720×480	31.47	59.94	SDTV, 480p
720×576	31.25	50.00	HDTV, 576p
1280×720	37.50	50.00	HDTV, 720p
1280×720	45.00	60.00	HDTV, 720p
1920×1080	28.12	50.00	HDTV, 1080i
1920×1080	33.75	60.00	HDTV, 1080i

• If any signal of unsupported resolution is input, the "Out of Range" message appears.

Specifications

Aspect Ratio	16:9
Screen Size (H \times V)	885.168(H)×497.664(V)mm
Resolution	1366×768
Pixel pitch (H \times V)	0.648(H) × 0.216(V)mm (RGB Vertical Script)
Displayable Colors	16.7M
Brightness	500cd/m ² (center of screen)
Contrast	1000:1
Viewing Angle	89° /89° /89° /89°
Input signal	PAL, SECAM, SD, HD, VGA~SXGA
Tuner	PAL, SECAM
PC Input	Analog RGB, DVI-D
AC Input	AC100-240V~, 50/60Hz, 2.8A(MAX)
Power Consumption	240W (Typical)

Maintenance and Service

Memo

Maintenance and Service

Memo

Maintenance and Service

Memo